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Mon, 24 Mar 1997 21:09:06 -0600 (CST)
From: glowbugs@sco.theporch.com
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Date: Tue, 25 Mar 1997 03:07:26 GMT
Message-Id: <199703250307.DAA14110@sco.theporch.com>
Errors-To: ws4s@infoave.net
Reply-To: glowbugs@sco.theporch.com
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Sender: glowbugs@sco.theporch.com
Precedence: bulk
To: Multiple recipients of list <glowbugs@sco.theporch.com>
Subject: GLOWBUGS digest 485
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
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GLOWBUGS Digest 485

Topics covered in this issue include:

- 1) Regens and Superhets
by Kevin Pease <hamradio@mm1001.theporch.com>
- 2) Re: Administrative, please read! IMPORTANT!
by Murray Kelly <mkelly@faraday.dialix.com.au>

Date: Mon, 24 Mar 1997 19:37:53 -0600 (CST)
From: Kevin Pease <hamradio@mm1001.theporch.com>
To: glowbugs@theporch.com
Subject: Regens and Superhets
Message-ID: <Pine.LNX.3.95.970324184224.5533A-100000@mm1001.theporch.com>

Is everyone moveing to boatanchors@tempe.gov ?

I have been thinking about the above topics superhets and regen receivers and am torn between the two. I want to build the simplest receiver that I can consistant with good performance. Good Sensivity and selectivety with the leas amount of components. I am thinking about combineing the superhet and regen like in the Simple-X series in my 1962 ARRL Handbook. However I

seem to never be satisfied with the caned receivers so I am thinking about making a receiver like the one in the 1857 handbook but using more modern tubes.

I would like comments from everyone on my Ideas.

Here is the lineup.

1. A 6U8 or similar tube as first mixer and local oscillator feeding an IF transformer at 1700 KHZ using a 1700 KHZ IF so that I can use band imaging.

2. A 6BE6 as crystal controlled second mixer. I like this tube since it has good gain and is simple. This would convert to 85 KHZ using an old command IF Xformer that I have for the IF. This stage would have the RF gain control since the 6BE6 can be gain controlled.

3. A 6U8 as a regenerative detector with the triode section the BFO for CW/SSB. Use capacitors for feedback or maybe a tickler hand wound varying the screen voltage for regeneration control. I am wondering how the selectivity will be at 85 KHZ. Should I get good single signal CW selectivity. The BFO will be injected into the grid with a small tickler or maybe stray tube capacitance. I have also thought about using old TV stabilizer coils as IF Coils at 100KHZ or maybe padding the Command coils down to 50 KHZ as an alternative to 85 KHZ.

4 A 6U8 or some Triode/Pentode as audio pre-amplifier/Power Amplifier since I like speaker capability.

I am torn between an IF stage for gain/selectivity and the regenerative detector for gain/selectivity. I could easily add a 6BA6 for the IF and have AVC and all those neat things but this would deviate from simple. I have already compromised by going to dual conversion since I know that more selectivity is available at the low freq IF's than at 1700 KHZ.

My first home brew receiver was a regenerative with at least 1 pentode and maybe two. I don't remember anymore. I still remember listening to SW broadcast with that regenerative receiver. And adjusting the regeneration on the edge for best gain and selectivity.

One concern about regeneration at 50-100KHZ is the ringing from the high Q as one approaches regeneration. I suppose that that could be a pain.

The temptation is real strong to add the IF and a product detector and AGC and S-meter for a higher performance design. It could be done with just 1 more tube by using the dual triode as the product detector/BFO and a silicon diode as an AGC rectifier. Would be pretty neat but I find it hard to decide what to do.

When all this is done I plan to also include in the box a QRP level transmitter maybe 6t9 or some other dual tube crystal controlled as the transmitter.

This rig will be set up for 80 and 40 meters.

Kevin Pease
WB0JZG
Mount Juliet, TN.

Date: Tue, 25 Mar 1997 12:04:19 +1000
From: Murray Kelly <mkelly@faraday.dialix.com.au>
To: rdkeys@csemail.cropsci.ncsu.edu
Subject: Re: Administrative, please read! IMPORTANT!
Message-ID: <333732A3.3F5E@faraday.dialix.com.au>

The impending closure of this list makes me wonder that the tube manufacturers/importers must surely be interested in keeping folk thinking about their product? Maybe Svetlana or Eimac or the mob that took over the glass tube side of their business would be willing to help out in some way?

After all, even tho there are only +-250 of us on the list we are obviously representative and spread good words abt. their wares (tubes). They are in business, and from first-hand experience I know how much PR means to commerce. It's much more effective \$ 4 \$, than advertising.

rdkeys@csemail.cropsci.ncsu.edu wrote:

> Alas, methinks glowbugs will have to move or vaporize. I would hate to
> see it vaporize, since there was a lot of good camaraderie amongst the
> group.....

>

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Goodbye, and thanks for all the fish!

End of GLOWBUGS Digest 485
